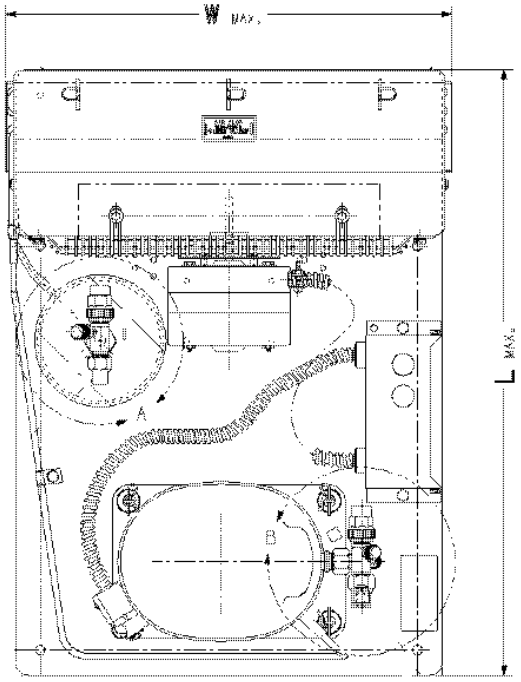
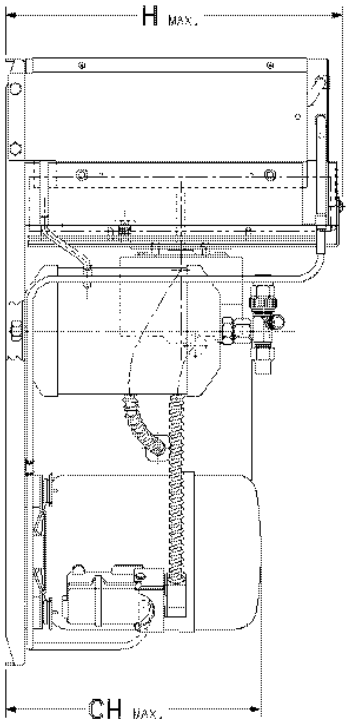
August 4, 2010

# Tecumseh Compressor Company
# Hermetic Condensing Units

**Model: AKA9460ZXAXC** **BoM: 2C724-1** **R-404A** **3/4 HP** **AIRCOOLED**




| Model | Dimensions, inches | | | | Line Connection* | | Pumpdown | Air | Oil Ch | Gr. Wt. |
|---|---|---|---|---|---|---|---|---|---|---|
| | L | W | H | CH | Suction | Liquid | 90 °F 90% | SCFM | Oz. | Lbs. |
| **AKA9460ZXAXC** | 24.3 | 18.0 | 14.0 | 10.2 | 1/2" F | 1/4" F | 6.0 lbs | 600 | 17 | 87 |

* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting
Factory charge: 20 PSIG Nitrogen – **MUST BE EVACUATED**

| | | Ambient Temperatures | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Evaporator T, | | 90°F | | | 100°F | | | 110°F | | |
| °F | PSIG | BTUH | Watts | Cond T | BTUH | Watts | Cond T | BTUH | Watts | Cond T |
| -10 | 23.9 | 3054 | 924 | 104 | 2569 | 888 | 112 | 2090 | 870 | 121 |
| -5 | 28.2 | 3481 | 978 | 106 | 2965 | 952 | 115 | 2431 | 945 | 123 |
| 0 | 32.8 | 3936 | 1034 | 108 | 3383 | 1019 | 117 | 2793 | 1021 | 125 |
| 5 | 37.9 | 4419 | 1094 | 110 | 3824 | 1088 | 119 | 3175 | 1098 | 127 |
| 10 | 43.3 | 4930 | 1157 | 112 | 4287 | 1159 | 122 | 3577 | 1177 | 129 |
| 15 | 49.2 | 5470 | 1224 | 114 | 4772 | 1233 | 124 | 4000 | 1258 | 131 |
| 20 | 55.5 | 6038 | 1294 | 117 | 5279 | 1309 | 127 | 4443 | 1340 | 133 |
| 25 | 62.2 | 6633 | 1366 | 119 | 5809 | 1388 | 129 | 4907 | 1423 | 135 |
| 30 | 69.5 | 7257 | 1443 | 121 | 6361 | 1469 | 131 | 5390 | 1508 | 137 |
| 35 | 77.2 | 7909 | 1522 | 124 | 6935 | 1552 | 134 | 5895 | 1594 | 139 |
| 40 | 85.5 | 8590 | 1605 | 127 | 7532 | 1638 | 137 | 6419 | 1682 | 142 |
| 45 | 94.3 | 9298 | 1690 | 129 | 8151 | 1726 | 140 | 6964 | 1771 | 144 |

**60 Hz Performance**

Return gas temp. 40°F, 5°F sub cooling

**Specifications/ Parts:**

| Model | **AKA9460ZXAXC** |
|---|---|
| Unit Bill of Material | **2C724-1** |
| Nominal Volts-Hz-Ph | 115-60-1 |
| Refrigeration Range | -10° F to +45° F |
| Design Pressure Low | 181 |
| Design Pressure High | 450 |
| Voltage Range | 126.5 to 103.5 |
| Min. Circuit Ampacity | 12.9 |
| Max. Fuse Size (amps) | 25 |
| Compressor Model | AKA9451ZXA |
| Comp. Bill of Material | AK170AT-038-P2 |
| Compressor RLA/LRA | 8.8 / 50.0 |
| Overload | 8300MRAM81 |
| Relay | 820ARR3D10 |
| Run Capacitor | 85PR370F20 |
| Run Capacitor Rating | 25 mfd @ 370V |
| Start Capacitor | 85PS250C30 |
| Start Capacitor Rating | 72-88 mfd @ 250V |
| Contactor | N/A |
| Unit Drawing | DGU1909-25 |
| Wiring Diagram | 90719 |
| | |
| | |
| | |
| | |
| | |
| | |

| Fan Motor | 810F050B62 |
|---|---|
| Fan Motor RLA | 2.0 |
| Fan Blade | 51563 |
| Fan Guard | 71062 |
| Fan Shroud | 70736-1 |
| High Pressure Switch | N/A |
| Low Pressure Control | N/A |
| Dual Pressure Control | N/A |
| Condenser | 50802-6 |
| Headmaster Valve * | N/A |
| Check Valve * | N/A |
| Receiver Tank | 51081 |
| Liquid Valve | **31584-1** |
| Liquid Filter * | N/A |
| Sight Glass * | N/A |
| Suction Valve | **31579-1** |
| Rotolock Valve Gasket | 30334 |
| Discharge Valve * | N/A |
| Suction Filter * | N/A |
| Accumulator | N/A |
| Crankcase Heater * | N/A |
| Defrost Timer * | N/A |
| * = Outdoor Units Only | |
| | |
| Options for Outdoor Units | |
| Receiver Heater | |
| Solenoid Valve | |

# Electrical Diagram